

OIPE

RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/058,291

DATE: 02/10/2002 TIME: 15:09:10 #2.

Input Set : N:\Crf3\RULE60\10058291.txt
Output Set: N:\CRF3\02102002\J058291.raw

SEQUENCE LISTING

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4 (1) GENERAL INFORMATION:
             (i) APPLICANT: Hartley, James L.
     6
                            Brasch, Michael A.
     7
            (ii) TITLE OF INVENTION: Recombinational Cloning Using Engineered
     9
                                     Recombination Sites
    10
           (iii) NUMBER OF SEQUENCES: 35
    12
            (iv) CORRESPONDENCE ADDRESS:
    14
                  (A) ADDRESSEE: STERNE, KESSLER, GOLDSTEIN & FOX, P.L.L.C
    15
                  (B) STREET: 1100 New York Ave., N. W. Suite 600
    16
                  (C) CITY: Washington
    17
                                                          ENTERED
                  (D) STATE: DC
    18
                  (E) COUNTRY: USA
    19
                  (F) ZIP: 20005-3934
    20
             (V) COMPUTER READABLE FORM:
    22
                  (A) MEDIUM TYPE: Floppy disk
     23
                  (B) COMPUTER: IBM PC compatible
     24
                  (C) OPERATING SYSTEM: PC-DOS/MS-DOS
     25
                  (D) SOFTWARE: PatentIn Release #1.0, Version #1.30
     26
            (vi) CURRENT APPLICATION DATA:
     28
                  (A) APPLICATION NUMBER: US/10/058,291
C--> 29
                  (B) FILING DATE: 30-Jan-2002
C--> 30
                  (C) CLASSIFICATION:
     56
           (vii) PRIOR APPLICATION DATA:
C--> 53
                  (A) APPLICATION NUMBER: 09/432,085
     34
                  (B) FILING DATE: 1999-11-02
     35
                  (A) APPLICATION NUMBER: 09/233,493
     39
                  (B) FILING DATE: 20-JAN-1999
     40
                  (A) APPLICATION NUMBER: 09/005,476
     44
                  (B) FILING DATE: 12-JAN-1998
     45
                  (A) APPLICATION NUMBER: 08/663,002
     49
                  (B) FILING DATE: 07-JUN-1996
     50
                  (A) APPLICATION NUMBER: 08/486,139
     54
                  (B) FILING DATE: 07-JUN-1995
     55
            (ix) TELECOMMUNICATION INFORMATION:
     58
                  (A) TELEPHONE: 202-371-2600
     59
                  (B) TELEFAX: 202-371-2540
     63 (2) INFORMATION FOR SEQ ID NO: 1:
             (i) SEQUENCE CHARACTERISTICS:
     65
                  (A) LENGTH: 25 base pairs
     66
                  (B) TYPE: nucleic acid
     67
     68
                  (C) STRANDEDNESS: both
                  (D) TOPOLOGY: both
     69
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```
(ii) MOLECULE TYPE: cDNA
71
       (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1:
76
                                                                            25
78 RKYCWGCTTT YKTRTACNAA STSGB
80 (2) INFORMATION FOR SEQ ID NO: 2:
        (i) SEQUENCE CHARACTERISTICS:
82
             (A) LENGTH: 25 base pairs
83
             (B) TYPE: nucleic acid
84
             (C) STRANDEDNESS: both
85
             (D) TOPOLOGY: both
86
       (ii) MOLECULE TYPE: cDNA
88
       (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2:
93
                                                                             25
95 AGCCWGCTTT YKTRTACNAA CTSGB
97 (2) INFORMATION FOR SEQ ID NO: 3:
        (i) SEQUENCE CHARACTERISTICS:
99
              (A) LENGTH: 25 base pairs
100
              (B) TYPE: nucleic acid
101
              (C) STRANDEDNESS: both
102
              (D) TOPOLOGY: both
103
        (ii) MOLECULE TYPE: cDNA
105
        (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3:
110
                                                                              25
112 GTTCAGCTTT CKTRTACNAA CTSGB
114 (2) INFORMATION FOR SEQ ID NO: 4:
         (i) SEQUENCE CHARACTERISTICS:
116
               (A) LENGTH: 25 base pairs
117
               (B) TYPE: nucleic acid
118
               (C) STRANDEDNESS: both
119
               (D) TOPOLOGY: both
120
        (ii) MOLECULE TYPE: cDNA
122
        (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4:
127
                                                                              25
129 AGCCWGCTTT CKTRTACNAA GTSGB
131 (2) INFORMATION FOR SEQ ID NO: 5:
          (i) SEQUENCE CHARACTERISTICS:
133
              (A) LENGTH: 25 base pairs
134
               (B) TYPE: nucleic acid
135
               (C) STRANDEDNESS: both
136
               (D) TOPOLOGY: both
137
         (ii) MOLECULE TYPE: cDNA
139
        (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5:
                                                                              25
 146 GTTCAGCTTT YKTRTACNAA GTSGB
 148 (2) INFORMATION FOR SEQ ID NO: 6:
          (i) SEQUENCE CHARACTERISTICS:
 150
               (A) LENGTH: 25 base pairs
 151
               (B) TYPE: nucleic acid
 152
               (C) STRANDEDNESS: both
 153
               (D) TOPOLOGY: both
 154
         (ii) MOLECULE TYPE: cDNA
 156
         (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6:
 161
                                                                               25
 163 AGCCTGCTTT TTTGTACAAA CTTGT
 165 (2) INFORMATION FOR SEQ ID NO: 7:
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| 167 (i) SEQUENCE CHARACTERISTICS: | |
|--|-----|
| 168 (A) LENGTH: 25 base pairs | |
| 169 (B) TYPE: nucleic acid | |
| 170 (C) STRANDEDNESS: both | |
| 171 (D) TOPOLOGY: both | |
| 173 (ii) MOLECULE TYPE: cDNA | |
| 178 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7: | 25 |
| 180 AGCCTGCTTT CTTGTACAAA CTTGT | |
| 182 (2) INFORMATION FOR SEQ ID NO: 8: | |
| 184 (i) SEQUENCE CHARACTERISTICS: | |
| 185 (A) LENGTH: 25 base pairs | |
| 186 (B) TYPE: nucleic acid | |
| 187 (C) STRANDEDNESS: both | |
| 188 (D) TOPOLOGY: both | • |
| 190 (ii) MOLECULE TYPE: cDNA 195 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 8: | |
| 195 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6: | 25 |
| 197 ACCCAGCTTT CTTGTACAAA CTTGT | |
| 199 (2) INFORMATION FOR SEQ ID NO: 9: 201 (i) SEQUENCE CHARACTERISTICS: | |
| 05.1 | |
| 1 4 4 - 3 | |
| | |
| | |
| | |
| TO TO NO. 9. | |
| 212 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 9. 214 GTTCAGCTTT TTTGTACAAA CTTGT | 25 |
| 216 (2) INFORMATION FOR SEQ ID NO: 10: | |
| 218 (i) SEQUENCE CHARACTERISTICS: | |
| 219 (A) LENGTH: 25 base pairs | |
| 220 (B) TYPE: nucleic acid | |
| 221 (C) STRANDEDNESS: both | |
| 222 (D) TOPOLOGY: both | |
| 224 (ii) MOLECULE TYPE: cDNA | |
| 229 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 10: | 0.5 |
| 231 GTTCAGCTTT CTTGTACAAA CTTGT | 25 |
| 233 (2) INFORMATION FOR SEQ ID NO: 11: | |
| 235 (i) SEQUENCE CHARACTERISTICS: | |
| 236 (A) LENGTH: 25 base pairs | |
| 237 (B) TYPE: nucleic acid | |
| 238 (C) STRANDEDNESS: both | |
| 239 (D) TOPOLOGY: both | |
| 241 (ii) MOLECULE TYPE: cDNA | |
| 246 (XI) SEQUENCE DESCRIPTION: SEQ ID NO: 11: | 25 |
| 248 GTTCAGCTTT CTTGTACAAA GTTGG | 23 |
| 250 (2) INFORMATION FOR SEQ ID NO: 12: | |
| 252 (i) SEQUENCE CHARACTERISTICS: | |
| 253 (A) LENGTH: 25 base pairs | |
| 254 (B) TYPE: nucleic acid | |
| 255 (C) STRANDEDNESS: both | |
| | |



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| 256 (D) TOPOLOGY: both 258 (ii) MOLECULE TYPE: cDNA 263 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 12: | 25 |
|---|-----|
| 265 AGCCTGCTTT TTTGTACAAA GTTGG | 23 |
| 267 (2) INFORMATION FOR SEQ ID NO: 13: | |
| 269 (i) SEQUENCE CHARACTERISTICS: | |
| 270 (A) LENGTH: 25 base pairs | |
| 271 (B) TYPE: nucleic acid | |
| 272 (C) STRANDEDNESS: both | |
| 273 (D) TOPOLOGY: both | |
| 275 (ii) MOLECULE TYPE: cDNA | |
| 280 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 13: | 25 |
| 282 AGCCTGCTTT CTTGTACAAA GTTGG | 25 |
| 284 (2) INFORMATION FOR SEQ ID NO: 14: | |
| 286 (i) SEQUENCE CHARACTERISTICS: | |
| 287 (A) LENGTH: 25 base pairs | |
| 288 (B) TYPE: nucleic acid | |
| 289 (C) STRANDEDNESS: both | |
| 290 (D) TOPOLOGY: both | |
| 292 (ii) MOLECULE TYPE: cDNA | |
| 297 (Xi) SEQUENCE DESCRIPTION: SEQ ID NO: 14: | 0.5 |
| 299 ACCCAGCTTT CTTGTACAAA GTTGG | 25 |
| 301 (2) INFORMATION FOR SEQ ID NO: 15: | |
| 303 (i) SEQUENCE CHARACTERISTICS: | |
| 304 (A) LENGTH: 25 base pairs | |
| 305 (B) TYPE: nucleic acid | |
| 306 (C) STRANDEDNESS: both | |
| 307 (D) TOPOLOGY: both . | |
| 309 (ii) MOLECULE TYPE: cDNA | |
| 314 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 15: | |
| 316 GTTCAGCTTT TTTGTACAAA GTTGG | 25 |
| 318 (2) INFORMATION FOR SEQ ID NO: 16: | |
| 320 (i) SEQUENCE CHARACTERISTICS: | |
| 321 (A) LENGTH: 25 base pairs | |
| 322 (B) TYPE: nucleic acid | |
| 323 (C) STRANDEDNESS: both | |
| 324 (D) TOPOLOGY: both | |
| 326 (ii) MOLECULE TYPE: CDNA | |
| 331 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 16: | |
| 333 GTTCAGCTTT CTTGTACAAA GTTGG | 25 |
| 335 (2) INFORMATION FOR SEQ ID NO: 17: | |
| 337 (i) SEQUENCE CHARACTERISTICS: | |
| 338 (A) LENGTH: 39 base pairs | |
| 339 (B) TYPE: nucleic acid | |
| 340 (C) STRANDEDNESS: both | |
| 341 (D) TOPOLOGY: both | |
| 343 (ii) MOLECULE TYPE: cDNA | |
| 348 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 17: | |
| 350 CCACCACAAA CGCGTCCATG GAATTACACT TTAATTTAG | 39 |
| 330 CONCONONIN COCCIOCITO CIMILITATIVA TARRESTA | |

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PATENT APPLICATION: US/10/058,291

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| 352 (2) INFORMATION FOR SEQ ID NO: 18: 354 (i) SEQUENCE CHARACTERISTICS: 355 (A) LENGTH: 39 base pairs 356 (B) TYPE: nucleic acid 357 (C) STRANDEDNESS: both 358 (D) TOPOLOGY: both 360 (ii) MOLECULE TYPE: cDNA 365 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 18: | |
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| 367 CCACCACAAG TCGACGCATG CCGACAGCCT TCCAAATGT 39 | 9 |
| 369 (2) INFORMATION FOR SEQ ID NO: 19: | |
| 371 (i) SEQUENCE CHARACTERISTICS: | |
| 372 (A) LENGTH: 46 base pairs | |
| 373 (B) TYPE: nucleic acid | |
| 374 (C) STRANDEDNESS: both | |
| 375 (D) TOPOLOGY: both | |
| 377 (ii) MOLECULE TYPE: cDNA | |
| 382 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 19: | _ |
| 384 GGCCGATTAC GATATCCCAA CGACCGAAAA CCTGTATTTT CAGGGT 46 | 5 |
| 386 (2) INFORMATION FOR SEQ ID NO: 20: | |
| 388 (i) SEQUENCE CHARACTERISTICS: | |
| 389 (A) LENGTH: 30 base pairs | |
| 390 (B) TYPE: nucleic acid | |
| 391 (C) STRANDEDNESS: both | |
| 392 (D) TOPOLOGY: both | |
| 394 (ii) MOLECULE TYPE: cDNA | |
| 399 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 20: | ^ |
| 401 CAGGIIIICG GICGIIGGGA IAICGIAMIC | U |
| 403 (2) INFORMATION FOR SEQ ID NO: 21: | |
| 405 (i) SEQUENCE CHARACTERISTICS: | |
| 406 (A) LENGTH: 47 base pairs | |
| 407 (B) TYPE: nucleic acid | |
| 408 (C) STRANDEDNESS: both | |
| 409 (D) TOPOLOGY: both | |
| 411 (ii) MOLECULE TYPE: cDNA 416 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 21: | |
| 416 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 21: 418 GGCCAGATTA CGATATCCCA ACGACCGAAA ACCTGTATTT TCAGGGT 4 | 7 |
| 420 (2) INFORMATION FOR SEQ ID NO: 22: | |
| 420 (2) INFORMATION FOR BLG 1B NO. 22. 422 (i) SEQUENCE CHARACTERISTICS: | |
| 423 (A) LENGTH: 31 base pairs | |
| 424 (B) TYPE: nucleic acid | |
| 425 (C) STRANDEDNESS: both | |
| 426 (D) TOPOLOGY: both | |
| 428 (ii) MOLECULE TYPE: cDNA | |
| 433 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 22: | |
| 435 CAGGTTTTCG GTCGTTGGGA TATCGTAATC T | 1 |
| 437 (2) INFORMATION FOR SEQ ID NO: 23: | |
| 439 (i) SEQUENCE CHARACTERISTICS: | |
| 440 (A) LENGTH: 48 base pairs | |
| 441 (B) TYPE: nucleic acid | |

VERIFICATION SUMMARY

PATENT APPLICATION: US/10/058,291

DATE: 02/10/2002

TIME: 15:09:11

Input Set : N:\Crf3\RULE60\10058291.txt
Output Set: N:\CRF3\02102002\J058291.raw

L:29 M:220 C: Keyword misspelled or invalid format, [(A) APPLICATION NUMBER:]

L:30 M:220 C: Keyword misspelled or invalid format, [(B) FILING DATE:]

L:33 M:220 C: Keyword misspelled or invalid format, [(vii) PRIOR APPLICATION DATA:]